

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claim 1 (Original). An article of manufacture capable of detecting the presence of a particular toxic substance comprising:

a substrate located on at least a portion of said article;

a biologically active ligand capable of recognizing an epitope of the particular toxic substance on at least a portion of said substrate; and

a matrix for maintaining biological activity maintaining matrix adapted to of said biologically active ligand, and having immobilized therein immobilize said biologically active ligand, said matrix positioned upon said substrate;

wherein said ligand ~~is constructed and arranged to~~ produces a visual ~~indicator~~ **cue** upon recognition of said toxic substance;

whereby the presence or absence of said particular toxic substance is confirmed.

Claim 2 (Original). The article of manufacture in accordance with claim 1 wherein:

said substrate is flexible.

Claim 3 (Original). The article of manufacture in accordance

with claim 1 wherein:

said substrate is releasably secured to said article of manufacture.

Claim 4 (Original). The article of manufacture in accordance with claim 1 wherein:

said substrate is permanently secured to said article of manufacture.

Claim 5 (Original). The article of manufacture in accordance with claim 1 wherein:

said substrate is formed integral with said article of manufacture.

Claim 6 (Original). The article of manufacture in accordance with claim 1 wherein:

said substrate is a polymer film securable to said article.

Claim 7 (Original). The article of manufacture in accordance with claim 1 wherein:

said biologically active ligand is immobilized in a particular icon shape.

Claim 8 (Original). The article of manufacture in accordance

with claim 1 wherein:

said ligand is selected from the group consisting of an antibody, a single stranded nucleic acid probe, an aptamer, a lipid, a natural receptor, a lectin, a carbohydrate and a protein.

Claim 9 (Original). The article of manufacture in accordance with claim 1 further including:

a scavenger antibody, which is a particular biologically active ligand characterized as having a higher affinity for the particular toxic substance than said biologically active ligand, said scavenger antibody ~~adapted to be immobilized upon~~ **present within** said substrate ~~and present~~ in a sufficient amount to bind with the particular toxic substance ~~up to and including a specific~~ **until a particular** threshold concentration **is reached;**

whereby said biologically active ligand ~~will be prevented from binding~~ **binds** with a detector antibody ~~until~~ **when** the concentration of the particular toxic substance surpasses ~~the specific~~ **said particular** threshold concentration.

Claim 10 (Original). The article of manufacture in accordance with claim 1 wherein:

the particular toxic substance is at least one member selected from the group consisting of at least one particular microorganism, biological materials containing ~~the~~ genetic characteristics of said

at least one particular microorganism, ~~mutations thereof~~, nucleic acids, proteins, integral components of said at least one particular microorganism and combinations thereof.

Claim 11 (Original). The article of manufacture in accordance with claim 1 wherein:

said ligand is a chromogenic ligand.

Claim 12 (Original). The article of manufacture in accordance with claim 1 wherein:

said biological activity maintaining matrix is a water gloss overprint varnish.

Claim 13 (Original). The article of manufacture in accordance with claim 1 wherein:

said biological activity maintaining matrix is a gelcoat.

Claim 14 (Withdrawn). A process for detecting the presence of a particular toxic substance on an article of manufacture, said process comprising:

securing a substrate;

placing a biologically active ligand capable of recognizing and visually indicating contact with an epitope of the particular toxic substance on at least a portion of said substrate;

contacting said biologically active ligand with a biological activity maintaining matrix adapted to immobilize said biologically active ligand upon said substrate; and

exposing said article of manufacture to the environment;

wherein contact with said particular toxic substance results in production of a visual indicator to confirm said contact.

Claim 15(Withdrawn). A process for detecting the presence of a particular toxic substance on an article of manufacture selected from the group consisting of gloves, coats, shoes, hats, face masks, labels, envelopes, bags, pouches, and self-adherent patches, said process comprising:

placing a biologically active ligand capable of recognizing and visually indicating contact with an epitope of said particular toxic substance on at least a portion of said article of manufacture;

contacting said biologically active ligand with a biological activity maintaining matrix adapted to immobilize said biologically active ligand upon said article of manufacture thereby forming an integral biological material identification system; and

exposing said integral biological material identification system to an environment;

wherein contact with said particular toxic substance results in production of a visual indicator to confirm said contact.

Claim 16(Withdrawn). A process in accordance with claim 15, wherein said biologically active ligand is placed and immobilized upon a substrate; said substrate being constructed and arranged to be releasably secured to said article of manufacture.

Claim 17 (Original). An article of manufacture selected from the group consisting of gloves, coats, shoes, hats, face masks, labels, envelopes, bags, pouches, and self-adherent patches for detecting the presence of a particular toxic substance comprising in combination:

a substrate constructed and arranged to be releasably securable to said article of manufacture, said substrate being located on at least a portion of said article;

a biologically active ligand capable of recognizing an epitope of the particular toxic substance on at least a portion of said substrate; and

a matrix for maintaining biological activity maintaining matrix adapted to of said biologically active ligand, and having immobilized therein immobilize said biologically active ligand, said matrix positioned upon said substrate;

wherein said ligand ~~is constructed and arranged to produce~~s a visual ~~indicator cue~~ upon recognition of said toxic substance;

whereby the presence or absence of said particular toxic substance is confirmed.

Claim 18 (Original). An article of manufacture selected from the group consisting of gloves, coats, shoes, hats, face masks, labels, envelopes, bags, pouches, and self-adherent patches for detecting the presence of a particular toxic substance comprising in combination:

a biologically active ligand located on at least a portion of said article of manufacture, said ligand being capable of recognizing an epitope of the particular toxic substance; and

a **matrix for maintaining** biological activity ~~maintaining~~ ~~matrix adapted to~~ **of said biologically active ligand, and having immobilized therein** ~~immobilize~~ said biologically active ligand, **said matrix positioned** upon said substrate;

wherein said ligand ~~is constructed and arranged to~~ produces a visual ~~indicator~~ **cue** upon recognition of said toxic substance;

whereby the presence or absence of said particular toxic substance is confirmed..